



DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

At. Po. Lonere, Tal. Mangaon, Dist. Raigad 402 103 MS (www.dbatu.ac.in)

INVITATION FOR QUOTATION

22 JUL 2024

Our Ref No. : DBATU/Store/EXTC /Drone Components/ 2024/1997

Date: 19/07/2024

Quotation For: Agricultural Drone Components

Due On: 01/08/2024

Date of Opening: 02/08/2024

Time: 11:30 am

Sub: QUOTATION FOR THE SUPPLY OF STORE

Dear Sir,

Your quotation for the items listed overleaf, may please be submitted to the under signed, so as to reach this Office not later than **01/08/2024**

While submitting your quotation, the following procedure may please be observed and other points borne in mind.

1. The maker's name must be specified.
2. The "Terms and Conditions" for supply and delivery of stores, should be clearly indicated in the quotation, stating whether rates are, inclusive of all taxes, Packing and forwarding charge,s Freight charges, etc. or not, however rates offered as including all taxes will be more welcome.
3. If packing and forwarding charges are to be charged separately, it should be so clearly stated in your quotation.
4. Please mention clearly whether consignment would be Ex-Godown, Ex-Shop, of F.O.R. dispatching stations. Preferably terms offered as "Delivery of consignment of stores, on F.O.R.
5. Envelope should be super-scribed "**Quotation for reference No..... of dated.....**" It should also be superscripted as per the format given above.
6. The quotation would be opened as per date and timing given above, if desired by you, you may depute an authorized representative with a letter of authority to be present at the time of opening of the quotation at this Office on the aforesaid day, date & time.
7. Your quotation must be valid for a minimum 30 (Thirty) working days from the date of it's opening.
8. Quotation received after the date of opening may not be taken into consideration.
9. Items tendered should confirm to the specification shown in the attached list when and where, full or no specifications are indicated against items in the list. Kindly furnish your full specification in accordance with accepted standards against each item tendered. Where reference to catalogue is made, the relevant catalogues/ Pamphlets/ Literature should accompany the quotation.
10. Your quotation should be for all new items and not for second1 hand.
11. Please state whether items will be available Ex-Stock. If not the minimum period for delivery, or for supplying the items or stores.
12. It should be clearly stated whether **GST**, Insurance, Freight or packing and forwarding charges, or any other taxes and duties, etc. leviable.
13. It would be appreciated if illustrated catalogues/Literature etc is furnished with the quotation.



14. Expression to as "Complete with standard Equipment" complete with standard accessories "Equipment to" As good as should be avoided. If at all their use is unavoidable then it should be very specifically indicated as to what exactly they mean and what exactly would be supplied under them. Any ambiguity or vagueness should be avoided.
15. For convenience, kindly adopt while quoting the same serial Nos. as given in the list detailed below.

Thanking You.

Yours faithfully,


Registrar

Dr. Babasaheb Ambedkar Technological University, Lonere

List of Items

Sr. No.	Description	Make	Approx. Qty Req.	Rate per / Each / Unit	Remarks
	AGRICULTURAL DRONE COMPONENTS				
01	JIYI K++ V2 FLIGHT CONTROLLER FOR AGRICULTURE DRONE		01		
02	JIYI Front Obstacle Avoidance Radar Sensor for K++ V2		01		
03	SKYRC PC1080 Dual Channel LiPo Battery Charger		01		
04	SKYDROID T12 2.4GHz 12CH Remote Control with 2-Axis Gimbal Camera For Drone		01		
05	Tattu 16000mAh 6S1P 15C Lipo Battery Pack with XT90 Anti Spark Connector		02		
06	JIYI Flow Sensor For K++ V2 & K3A Pro For Agriculture Drone In India Details specification are as per Annexure –I attached herewith		01		

➤ Quantity may vary

Specification of Drone Components
Annexure – I

Sr. No.	Description	Specification	Qty
01	JIYI K++ V2 FLIGHT CONTROLLER FOR AGRICULTURE DRONE		01
	Supported frame types	Quadcopter (+ type, X type) Hexacopter (+ type, X type, Y type coaxial twin propellers) Octocopter (+ type, X type, V type)	
	Supported ESC types	ESC below 490HZ PWM	
	Maximum output channels	8 channels	
	Suggested remote control type	SBUS receiver	
	Supported receiver types	PPM, S-BUS receiver	
	Supported peripherals	RTK, K-BOX, IOT, obstacle avoidance radar, terrain following radar, integrated remote transmitter, FPV camera, binocular vision sensor, flow meter, liquid level meter, etc.	
	Lipo battery types	2-12S	
	Power dissipation	<5W	
	Working temperature	-10~60	
	Storage temperature	-25~60	
	Seismic rating	<1G</td>	
	Hover accuracy	Horizontal ±1.5m Vertical ±0.5m	
	Maximum tilt angle	30 degrees	
	Maximum yaw speed	150 degrees/sec	
	Maximum vertical speed	6 m/s	
	Wind resistance	Continuous wind: level 4 Gust: Level 5	
	Flight modes and functions	Attitude mode, GPS mode, ABT operation, autonomous operation, one-button return, out of control protection, out of control to continue operation, low voltage protection, drug out protection function, precision spraying, fence function, log storage function, landing lock function, forbidden Fly zone function, vibration protection function, star loss protection function, active noise reduction function, motor sequence detection function, direction detection function, dual water pump mode, water pump switch control, water pump linkage control	
	Weight	Total net weight: 321g FC: 87g PMU: 41g PMU2(UPS): 44g	
	Size	FC 72.6 × 48.0 × 22.8 mm PMU 53.4 × 34.4 x 14.5 mm PMU2(UPS) 53.4 × 34.4 x 14.5 mm GPS Φ62.0 × 14.3 mm LED 24.0 × 24.0 × 8.0 mm	
02	JIYI Front Obstacle Avoidance Radar Sensor for K++ V2		
	Weight (g): 80g	80g	
	Modulation Mode	FMCW	
	Centre Frequency	24.125GHz	

	Detection range	1~25m	
	Accuracy	0.1m	
	Power Waste	3.0W at 25 degree C	
	Resolution	0.6m	
	Shipping Weight	0.142 kg	
	Shipping Dimensions	12 × 11 × 6 cm	
03	SKYRC PC1080 Dual Channel LiPo Battery Charger		01
	Output Power	1080 W (540 W x 2)	
	Discharge Power	100 W (50 W x 2)	
	Charge Current	1.0-20.0 A x 2	
	Balance Current	1.2 A	
	Battery Type	LiPo/LiHV	
	Battery Cell Count	6S x 2	
	Charging Mode	Balance Charge Mode / Storage Mode / Charge Mode	
	Dimension	Length – 272 mm Width – 202 mm Height – 118.6 mm	
	Net Weight	4.88 kg	
	Shipping Weight	5.6 kg	
	Shipping Dimensions	39 × 26.5 × 18.7 cm	
04	SKYDROID T12 2.4GHz 12CH Remote Control with 2-Axis Gimbal Camera For Drone		01
	Model	T12	
	Working Voltage	3.7V	
	Frequency	2.400-2.4833GHZ	
	Duration	25hours	
	Modulation	New FHSS	
	Channels	12	
	Working current	130mA	
	Battery capacitor	4000mA	
	charge Port	MICRO-USB	
	Weight	560g	
	Dimension	23*16*7	
	Shipping Weight	1.072 kg	
	Shipping Dimensions	24 × 19 × 10 cm	
05	Tattu 16000mAh 6S1P 15C Lipo Battery Pack with XT90 Anti Spark Connector		02
	Brand	Tattu	
	Capacity(mAh)	16000	
	Voltage(V)	22.2	
	Discharge Rate (C)	15	
	Max Burst discharge Rate (C)	30	
	Configuration	6S1P	
	Net Weight(±20g)	1915	
	Length(±5mm)	190	
	Width(±2mm)	75	
	Height(±2mm)	63	
	Connector Type	XT90 ANTI SPARK	
	Wire Gauge	AWG10#	
	Discharge Wire Length(mm)	120mm	
	Balancer Connector Type	JST-XHR	

06	JIYI Flow Sensor For K++ V2 & K3A Pro For Agriculture Drone In India		01
	Brand	JIYI	
	weight	25 grams	
	max operating current	10 mA	
	voltage range	4.5-18 V	
	temperature range	-20'c - 80'c	
	Minimum Order Quantity	1	